

MTA
DRUM MOTORS
CROSS BELT

MTA
innovation is our drive

***Drive solutions for high
performance sorting***



POWERFUL, DYNAMIC, PRECISE

Integrated drive solutions for high accelerations

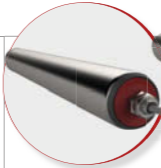

Highly dynamic drives for cross belt sorters are indispensable elements in logistics centres for the efficient sorting of packages.

Designed for use in flexible cross belt sorter solutions for the **high-performance sorting** of packages of varying sizes and weights, multiple drive styles are available.



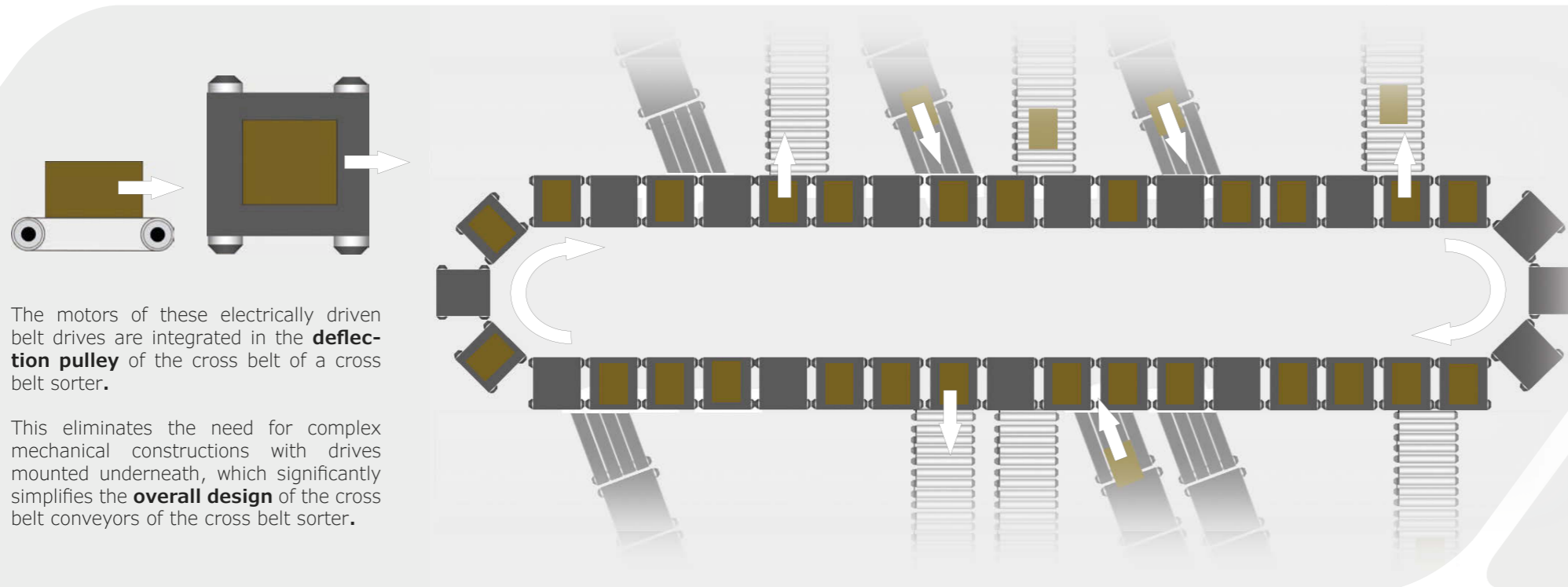
Variants

Mechanical and electrical adjustments can be implemented individually and allow the modular and flexible structure of the customer application.

Drum motors			
Type		MRA50	MRI80
Package weights	kg	up to 10	up to 50
Voltage	VDC	24/48	48
Speed	m/s	2	2.4
Maximum torque	Nm	2.5	26
Encoder		Hall	magn. encoder
Gearbox		gearless	✓
Tube diameter	mm	50	80
Guide groove for belt		✓	✓



The duty cycle of the cross belt conveyors on cross belt sorters is usually very short. Due to the **high dynamics** when ejecting or dropping the packages, **high accelerations** and therefore **high peak outputs** are required for short periods.

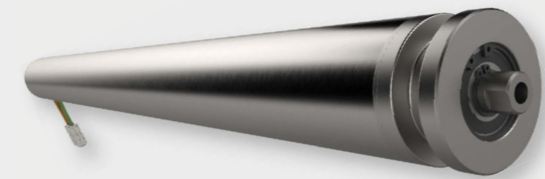


The motors of these electrically driven belt drives are integrated in the **deflection pulley** of the cross belt of a cross belt sorter.

This eliminates the need for complex mechanical constructions with drives mounted underneath, which significantly simplifies the **overall design** of the cross belt conveyors of the cross belt sorter.

Options

Different encoder systems ensure **flexible control** with an external motor controller. Depending on **individual customer requirements**, the design is made with a Hall sensor, magnetic encoder or resolver.

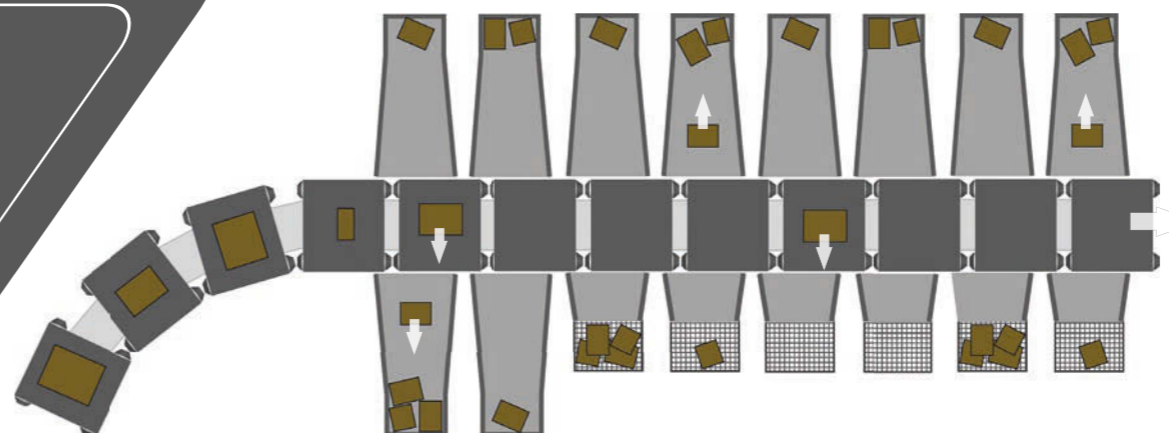


Various guides can be provided for the belt to prevent it from running sideways. Designs with **beads, grooves** or **convex tubes** are possible.

Properties

- **Highly dynamic sorting** and **ejection** with cross belt sorter
- **Precise dropping** of packages with a total weight of up to 50 kg
- High **precision** and maximum **performance** when positioning and accelerating
- **Individual adaptation** of the mechanical design and electrical interfaces
- Flexible adaptation to decentralised motor controllers

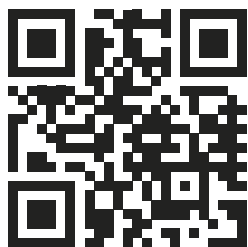
Application



With the cross belt drive, packages are effortlessly and efficiently sorted in the **high-speed cross belt sorter** to ensure smooth and fast logistics processing.

In the **package delivery area**, these conveyors enable the **highly dynamic dropping of packages**, which are then piled up in collection points.

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